



DOCKET NO.: ISIS0185-101 (ISPH-0569)

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: Kevin P. Anderson et al.

Serial No.: 09/853,409

Examiner: David Guzo

Filing Date: May 11, 2001

Art Unit: 1636

Title: **Compositions and Methods for Treatment of Hepatitis C Virus-Associated Diseases**Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

**POWER OF ATTORNEY WITH REVOCATION AND
CHANGE OF CORRESPONDENCE ADDRESS**

I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application, and appoint

☒ Practitioners at Customer Number: 34138 as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the Correspondence Address for the above-identified application to:

☒ Practitioners at Customer Number: 34138.

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. (A statement under 37 CFR 3.73(b) is enclosed.)

Respectfully submitted,
ISIS Pharmaceuticals, Inc.

Date: 7/27/05By: [Signature]

Name: Grantland E. Bryce
Title: Vice President



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Inventors: Kevin P. Anderson et al.

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Art Unit: 1636

Title: **Compositions and Methods for Treatment of Hepatitis C Virus-Associated Diseases**Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

STATEMENT UNDER 37 CFR 3.73(b)

Applicant, **ISIS Pharmaceuticals, Inc.**, a Delaware corporation, states that it is:☒ the assignee of the entire right, title, and interest of the above-identified application.

The extent (by, percentage) of its ownership interest is 100% in the patent application/patent identified above by virtue of either:

☒ An assignment from the inventor(s) of the patent application/patent identified above.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Respectfully submitted,
ISIS Pharmaceuticals, Inc.

Date:

7/27/05

By:

Name: Grantland E. Bryce
Title: Vice President

DOCKET NO.: ISPH-0569

PATENT

A S S I G N M E N T

WHEREAS, We, Kevin P. Anderson, of Carlsbad, State of California; Ronnie C. Hanecak, of San Clemente, State of California; Chikateru Nozaki, of Kumanoto, Japan; F. Andrew Dorr, of Solana Beach, State of California; and T. Jesse Kwoh, of Carlsbad, State of California, have invented a certain invention entitled Compositions and Methods for Treatment of Hepatitis C Virus-Associated Disease, for which we have made application for Letters Patent of the United States, said application having been filed May 11, 2001 and assigned Application No. 09/853,409; and

WHEREAS, ISIS Pharmaceuticals, Inc. hereinafter referred to as the assignee, of 2292 Faraday Avenue, Carlsbad CA, a corporation of Delaware, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other

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countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any

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PATENT

country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

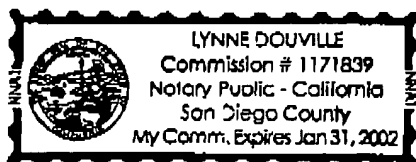
IN WITNESS WHEREOF, we have hereunto set our hands and seals.

DATED: Nov 1, 2001

Kevin P. Anderson
Kevin P. Anderson

State of California)
) ss.
County of San Diego)

On this 1st day of November, 2001, before me, the undersigned, a Notary Public for the state, personally appeared Kevin P. Anderson, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.



WITNESS my hand and official seal.

Lynne Douville
Signature of Notary

DOCKET NO.: ISPH-0569

PATENT

DATED: _____, 2001

Ronnie C. Hanecak

State of California)
) ss.
County of San Diego)

On this _____ day of _____, 2001, before me, the undersigned, a Notary Public for the state, personally appeared Ronnie C. Hanecak, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Signature of Notary

DOCKET NO.: ISPH-0569

PATENT

DATED: _____, 2001

Chikateru Nozaki

Witnessed by:

(Please print)

Name:

Address:

Dated: _____

(Complete if signing before a Notary Public)

DATED: _____, 2001

Chikateru Nozaki

State of California)
) ss.
County of San Diego)

On this _____ day of _____, 2001, before me, the undersigned, a Notary Public for the state, personally appeared Chikateru Nozaki, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Signature of Notary

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PATENT

DATED: _____, 2001

F. Andrew Dorr

State of California)
) ss.
County of San Diego)

On this _____ day of _____, 2001, before me, the undersigned, a Notary Public for the state, personally appeared F. Andrew Dorr, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Signature of Notary

DATED: _____, 2001

T. Jesse Kwoh

State of California)
) ss.
County of San Diego)

On this _____ day of _____, 2001, before me, the undersigned, a Notary Public for the state, personally appeared T. Jesse Kwoh, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Signature of Notary

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A S S I G N M E N T

WHEREAS, We, Kevin P. Anderson, of Carlsbad, State of California; Ronnie C. Hanecak, of San Clemente, State of California; Chikateru Nozaki, of Kumanoto, Japan; F. Andrew Dorr, of Solana Beach, State of California; and T. Jesse Kwoh, of Carlsbad, State of California, have invented a certain invention entitled Compositions and Methods for Treatment of Hepatitis C Virus-Associated Disease, for which we have made application for Letters Patent of the United States, said application having been filed May 11, 2001 and assigned Application No. 09/853,409; and

WHEREAS, ISIS Pharmaceuticals, Inc. hereinafter referred to as the assignee, of 2292 Faraday Avenue, Carlsbad CA, a corporation of Delaware, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other

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countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any

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country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

DATED: _____, 2001

Kevin P. Anderson

State of California)
) ss.
County of San Diego)

On this _____ day of _____, 2001, before me, the undersigned, a Notary Public for the state, personally appeared Kevin P. Anderson, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Signature of Notary

DOCKET NO.: ISPH-0569

PATENT

DATED: Oct 18, 2001

Ronnie C. Hanecak
Ronnie C. Hanecak

State of California)
) ss.
County of San Diego)

On this 11th day of October, 2001, before me, the undersigned, a Notary Public for the state, personally appeared Ronnie C. Hanecak, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.



Catherine Marie Isaksen
Signature of Notary

DOCKET NO.: ISPH-0569

PATENT

DATED: _____, 2001

Chikateru Nozaki

Witnessed by:

Dated: _____

(Please print)

Name:

Address:

(Complete if signing before a Notary Public)

DATED: _____, 2001

Chikateru Nozaki

State of California)

) ss.

County of San Diego)

On this _____ day of _____, 2001, before me, the undersigned, a Notary Public for the state, personally appeared Chikateru Nozaki, personally known to me/proved to me on the basis of ~~satisfactory~~ evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Signature of Notary

DOCKET NO.: ISPH-0569

PATENT

DATED: _____, 2001

F. Andrew Dorr

State of California)
) ss.
County of San Diego)

On this _____ day of _____, 2001, before me, the undersigned, a Notary Public for the state, personally appeared F. Andrew Dorr, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Signature of Notary

DATED: _____, 2001

T. Jesse Kwoh

State of California)
) ss.
County of San Diego)

On this _____ day of _____, 2001, before me, the undersigned, a Notary Public for the state, personally appeared T. Jesse Kwoh, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Signature of Notary

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NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other



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AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any



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IN WITNESS WHEREOF, we have hereunto set our hands and seals.

DATED: _____, 2001

Kevin P. Anderson

State of California)
) ss.
County of San Diego)

On this _____ day of _____, 2001, before me, the undersigned, a Notary Public for the state, personally appeared Kevin P. Anderson, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Signature of Notary



DOCKET NO.: ISPH-0569

PATENT

DATED: _____, 2001

Ronnie C. Hanecak

State of California)
) ss.
County of San Diego)

On this _____ day of _____, 2001, before me, the undersigned, a Notary Public for the state, personally appeared Ronnie C. Hanecak, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Signature of Notary



DOCKET NO.: ISPH-0569

DATED: Nov 15, 2001

PATENT

Chikateru Nozaki
Chikateru Nozaki

Witnessed by:

Hirofumi Kurihara

(Please print)

Name: Hirofumi Kurihara

Address: 1-4-45, Tatsuda-Jinnai, Kumamoto-shi, Kumamoto, 862-8005, JAPAN

Dated: November 14, 2001

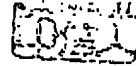
(Complete if signing before a Notary Public)


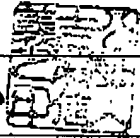
DATED: Nov 15, 2001Chikateru Nozaki
Chikateru NozakiState of California)
County of San Diego) ss.

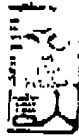
On this 15 day of November, 2001, before me, the undersigned, a Notary Public for the state, personally appeared Chikateru Nozaki, personally known to me/proved to me on the basis of ~~satisfactory~~ evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Nobuyoshi Yoshise
Signature of Notary



1	平成13年登簿第185号
2	嘱託人 野崎 周英 は 本公証人の 面前で、
3	本証書に 署名した。
4	
5	
6	
7	
8	
9	
10	
11	
12	以上認証する
13	平成13年 11 月 15 日 日本職役場において
14	熊本市九品寺2丁目1番24号
15	熊本地方法務局所属
16	公証人 吉 瀬 信 義 



Registered No. 185 of 2001.

NOTARIAL CERTIFICATE

This is to certify that *Chikateru Nozaki*
signed (and sealed) the attached document in my
presence on this **15** day of November
2001.

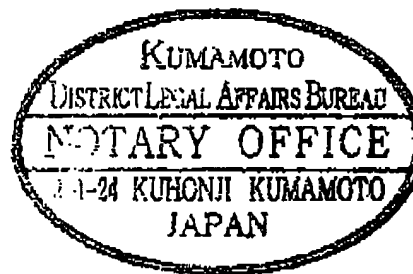
Keluyoshi Yoshise

NOTARY,

Attached to the KUMAMOTO DISTRICT LEGAL AFFAIRS
BUREAU

KUMAMOTO NOTARY OFFICE

1-24, Kuhonji 2-chome, Kumamoto-shi, Kumamoto-ken,
862-0976, Japan





DOCKET NO.: ISPH-0569

PATENT

DATED: _____, 2001

F. Andrew Dorr

State of California)
) ss.
County of San Diego)

On this _____ day of _____, 2001, before me, the undersigned, a Notary Public for the state, personally appeared F. Andrew Dorr, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Signature of Notary

DATED: _____, 2001

T. Jesse Kwoh

State of California)
) ss.
County of San Diego)

On this _____ day of _____, 2001, before me, the undersigned, a Notary Public for the state, personally appeared T. Jesse Kwoh, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

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IN WITNESS WHEREOF, we have hereunto set our hands and seals.

DATED: _____, 2001

Kevin P. Anderson

State of California)
) ss.
County of San Diego)

On this _____ day of _____, 2001, before me, the undersigned, a Notary Public for the state, personally appeared Kevin P. Anderson, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Signature of Notary

DOCKET NO.: ISPH-0569

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DATED: _____, 2001

Ronnie C. Hanecak

State of California)
) ss.
County of San Diego)

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WITNESS my hand and official seal.

Signature of Notary

DOCKET NO.: ISPH-0569

PATENT

DATED: _____, 2001

Chikateru Nozaki

Witnessed by:

Dated: _____

(Please print)

Name:

Address:

(Complete if signing before a Notary Public)

DATED: _____, 2001

Chikateru Nozaki

State of California)
) ss.
County of San Diego)

On this _____ day of _____, 2001, before me, the undersigned, a Notary Public for the state, personally appeared Chikateru Nozaki, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Signature of Notary

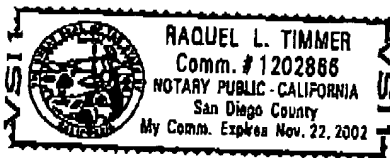
DOCKET NO.: ISPH-0569

PATENT

DATED: 3 OCT, 2001F. Andrew Dorr
F. Andrew Dorr

State of California)
County of San Diego) ss.

On this 3rd day of October, 2001, before me, the undersigned, a Notary Public for the state, personally appeared F. Andrew Dorr, personally known to me/~~proved to me on the basis of satisfactory evidence~~ to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

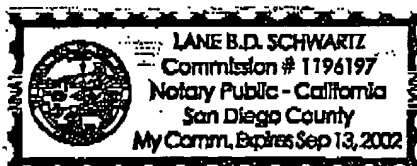


WITNESS my hand and official seal.

Raquel L. Timmer
Signature of NotaryDATED: Oct 3, 2001T. Jesse Kwoh
T. Jesse Kwoh

State of California)
County of San Diego) ss.

On this 3rd day of October, 2001, before me, the undersigned, a Notary Public for the state, personally appeared T. Jesse Kwoh, personally known to me/~~proved to me on the basis of satisfactory evidence~~ to be the person who subscribed the foregoing Assignment and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.



WITNESS my hand and official seal.

Lane B.D. Schwartz
Signature of Notary